MGate™ EIP3270 and EIP3270I Quick Installation Guide

Third Edition, May 2014

Overview

The MGate™ EIP3270 and EIP3270I are 2-port DF1 to EtherNet/IP gateways that provide protocol conversion for users who need to connect Rockwell Automation PLCs to an EtherNet/IP network. The MGate™ EIP3000 series products support up to 8 EtherNet/IP clients and 8 EtherNet/IP servers simultaneously. Each client can send up to 16 requests at one time.

Package Checklist

Before installing the MGate™ EIP3270 or EIP3270I DF1 to EtherNet/IP gateway, verify that the package contains the following items:

- MGate™ EIP3270 or EIP3270I DF1 to EtherNet/IP gateway
- Document & Software CD
- Quick Installation Guide
- Product Warranty Statement

Optional Accessories:

- **DK-35A:** DIN-rail mounting kit (35 mm)
- **Mini DB9F-to-TB Adaptor:** DB9 female to terminal block adapter
- **DR-4524:** 45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC input
- **DR-75-24:** 75W/3.2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC input
- **DR-120-24:** 120W/5A DIN-rail 24 VDC power supply with 88 to 132 VAC/176 to 264 VAC input by switch

Please notify your sales representative if any of the above items is missing or damaged.

P/N: 1802032701012

Hardware Introduction

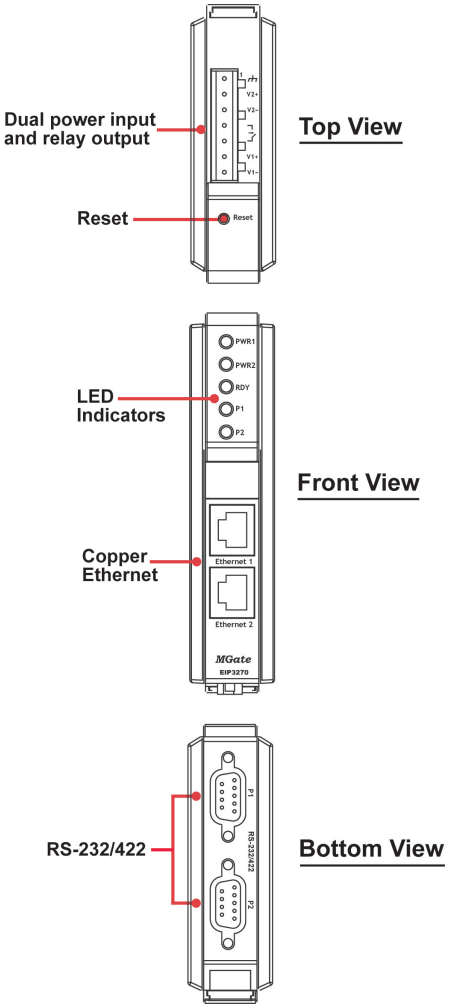
LED Indicators

Name	Color	Function
PWR1	Red	Power is being supplied to the power input
PWR2	Red	Power is being supplied to the power input
RDY	Red	Steady: Power is on and the unit is booting up
		Blinking: IP conflict, DHCP or BOOTP server did not respond properly, or a relay output occurred
	Green	Steady: Power is on and the unit is functioning normally
		Blinking: Unit is responding to Locate function
	Off	Power is off or power error condition exists
Ethernet	Orange	10 Mbps Ethernet connection
	Green	100 Mbps Ethernet connection
	Off	Ethernet cable is disconnected or has a short
P1, P2	Orange	Serial port is receiving data
	Green	Serial port is transmitting data
	Off	Serial port is not transmitting or receiving data

Reset Button

The reset button is used to load factory defaults. Use a pointed object such as a straightened paper clip to hold the reset button down for five seconds. Release the reset button when the Ready LED stops blinking.

The MGate™ EIP3270 and EIP3270I each provide two DB9 ports to connect to serial devices.



Hardware Installation Procedure

STEP 1: Use a standard straight-through Ethernet cable to connect the unit to a network hub or switch.

STEP 2: Connect your device to the MGate serial port.

STEP 3: Mount the MGate on a DIN-rail.

STEP 4: Connect the power source to power input.

Software Installation Information

To install MGate Manager, insert the MGate Documentation and Software CD into your PC's CD-ROM drive, and then run the following setup program to begin the installation process from the "Software" directory:

MGM_Setup_[Version]_Build_[DateTime].exe

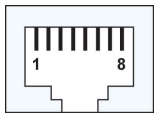
The filename of the latest version may have the following format:

MGM_Setup_Verx.x.x_Build_xxxxxxxx.exe.

For detailed information about MGate Manager, refer to the MGate EIP3000 User's Manual, which can be found in the "Document" directory.

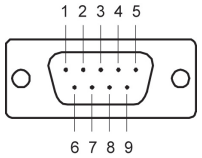
Pin Assignments

Ethernet Port (RJ45)



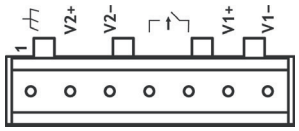
Pin	Signal
1	Tx+
2	Tx-
3	Rx+
6	Rx-

Serial Port (Male DB9)



Pin	RS-232	RS-422
1	DCD	TxD-(A)
2	RxD	TxD+(B)
3	TxD	RxD+(B)
4	DTR	RxD-(A)
5	GND	GND
6	DSR	---
7	RTS	---
8	CTS	---
9	---	---

Power Input and Relay Output Pinouts



	V2+	V2-			V1+	V1-
Shielded Ground	DC Power Input 1	DC Power Input 1	Relay output	Relay output	DC Power Input 2	DC Power Input 2

Specifications

Power Requirements

Power Input	12 to 48 VDC
Power Consumption	EIP3270: 435 mA @ 12 VDC, 145 mA @ 48 VDC
	EIP3270I: 510 mA @ 12 VDC, 150 mA @ 48 VDC
Operating Temperature	Standard: 0 to 60°C (32 to 140°F), Wide Temp. Model: -40 to 75°C (-40 to 167°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Humidity	5 to 95% RH
Dimensions	
Without ears:	29 x 89.2 x 118.5 mm (1.14 x 3.51 x 4.67 in)
With ears extended:	29 x 89.2 x 124.5 mm (1.14 x 3.51 x 4.90 in)
Hazardous Location	ATEX Zone 2, IECEx (-IEX model)

ATEX and IECEx Information

1. DEMKO Certification number: 07 ATEX 0690059X IEC Certification Number: IECEx UL 13.0023X (only for models with suffix –CT or –IEX)
2. Ambient Temperature Range (-40°C ≤ Tamb ≤ 75°C)
3. Certification String: Ex nA IIC T3 Gc
4. Standards Covered: EN 60079-0:2012/IEC 60079-0 6th Ed. AND EN 60079-15:2010/IEC 60079-15 4th Ed.
5. The conditions of safe usage:
   - The Ethernet Communications Devices are intended for mounting in a tool-accessible IP54 enclosure and used in an area of not more than pollution degree 2 as defined by IEC 60664-1.
   - Conductors suitable for use in an ambient temperature greater than 114°C must be used for the power supply terminal.
   - A 4mm2 conductor must be used when connection to the external grounding screw is utilized.
   - Provisions shall be made, either in the equipment or external to the equipment, to prevent the peak rated voltage being exceeded by the transient disturbances of more than 140%.

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